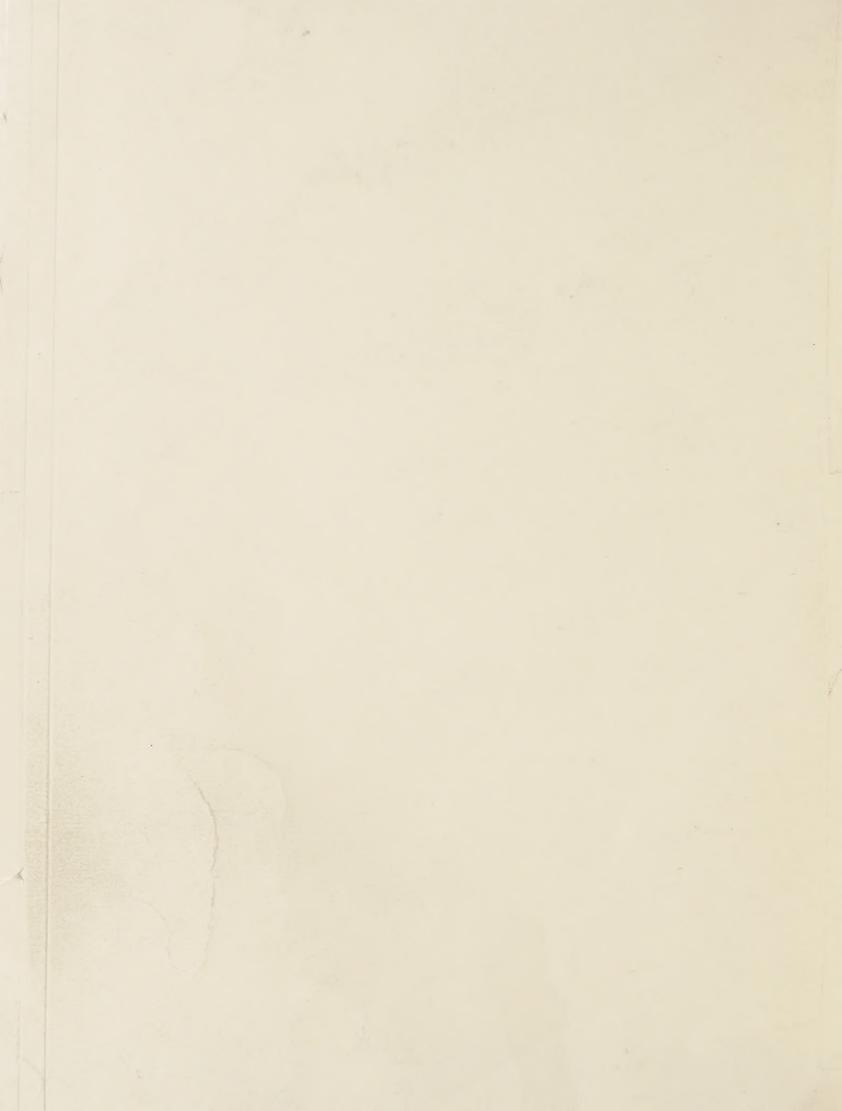
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UNITED STATES DEPARTMENT OF AGRICULTURAL Bureau of Entomology and Plant Quarantine Washington 25, D. C.

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DEPT. OF AGRICULTURE

December 20 1943

The attached statement summarizes the results of trap-scouting carried on during the summer of 1943 to secure information on the distribution and possible status of the Japanese beetle in localities outside the area regulated by Federal quarantine. It includes: (1) A list of all the localities outside the regulated area where trap-scouting was carried on with positive results and the number of beetles found during the seasons from 1934 to 1943 inclusive, and (2) a list of the localities where soil treatments have been applied in isolated areas from 1941 to date. The tabulation on soil treatments includes an estimate of the acreage to be treated as a result of the collections made during 1943.

The list of localities where soil treatments have been applied as a part of the cooperative State and Federal effort to combat outlying incipient infestations to delay the time when they may cause damage or become new centers of spread shows the interest there is in this phase of the Japanese beetle program. The soil treatment referred to involves the application of lead arsenate at the rate of 500 pounds per acre. The area to be covered by the treatment is determined following field inspection of localities where beetles are collected during the transping season. Treatment of soil with arsenate of lead is generally recommended for the area within a 300 foot radius of all localities where female beetles or more than one specimen of either sex are collected. In sections where only a solitary male beetle is collected the application of soil treatment is not urged. Such sites are, however, sometimes included in the area treated and in some instances treatment is applied beyond the usual radius as added precautions.

The effectiveness of soil treatment as appraised by the collections of beetles the following season depends in part on the time of the year when the treatment is applied. The importance of this factor is becoming more generally recognized and this season soil treatments have been applied as early as conditions and facilities, in cluding equipment and labor, permitted. A proportionately larger amount of the soil treatment proposed as a result of the collections of the past season has been applied than has been the case in preceding years. Plans for treatment in other areas indicate that the work can be done as early as seasonal conditions permit.

At present it appears that the suppressive measures which have been applied or are proposed for localities outside the regulated area and in non-quarantined States together with the State quarantine action as to certain outlying areas, will assure protection from spread at least comparable with that obtained if the Federal quarantine were extended. Immediate extensions of the area regulated under the Federal quarantine on the Japanese beetle as a result of the season's trapping records therefore, will be limited to two election districts in Maryland and two cities in West Virginia. Should it later develop that soil treating programs contemplated for certain localities in Virginia cannot be carried out in the spring, it may be necessary to review the situation in reference to these to assure appropriate protection to uninfested areas. The necessity of holding a hearing or conference to consider the extension of the regulated area or modification of the regulations

prior to a revision of the quarantine regulations can be avoided. It is expected that the revised quarantine and regulations will be issued in the near future. In addition to the extension of the regulated area referred to above, the revision will provide for lessening the restrictions on certain regulated products without involving change in risk from artificial spread. The revision will also provide other modifications in form in the interest of simplification, with the hope that the requirements will be more concisely and simply stated than heretofore.

The accompanying statement is similar to any report on current conditions that might be presented at a public conference. It is issued to make available to State plant quarantine officials and other interested parties the latest information on the distribution and status of the Japanese beetle in areas not now included under Tederal quarantine and to acquaint them of the proposed modification of the regulations.

P. N. ANNAND Chief of Bureau

Attachments - 3

REPORT OF RESULTS OF JAPANESE BEETLE TRAPPING AND CONTROL OPERATIONS DURING 1943

Trapping to determine spread of the Japanese beetle in 1943 largely paralleled that of the previous year. Traps that had been reclaimed from previous year's use and stored in the field were the only ones available. Local labor, trained as the traps were placed, was employed. With the necessity for conservation of traps and labor, most of the activities were confined to localities in which combined trapping and soil treating work had been carried on in previous years for control of the insect, or to communities in which incipient or apparently negligible infestations had been discovered. This left a small margin of traps for setting in localities not previously trapped.

From the 55,354 inexpensive scout traps used in 1942, it was possible to salvage 41,993 for the current year's activities. As was the case in 1942, trapping was performed in 17 States, but the number of localities included in the program was reduced from 242 to 161.

Results of the Maryland State trapping show relatively heavy infestations in Hancock, Hughesville, and Siebert, with negligible infestations in Flintstone, Oakland, Leonardtown, and Mechanicsville. Hancock and Siebert are to be included in the requilated area. Hughesville is located in a somewhat isolated tobacco-growing section, with no nursery plantings in the vicinity. The State has distributed milky disease spore material throughout Hughesville and, therefore, quarantine action there this year is being deferred.

Trap captures in Canandaigua, Dunkirk, Lyons, Medina, Newark, North Tonawanda, and Plattsburg, New York, were of a few beetles each. Infestations persisted in Avon, Jamestown, Silver Creek, and Waterloo. Soil treatments completed in the latter four communities in May and June 1943 were too late to affect materially emergence of adults this season and many of the beetles were trapped in or near the treated sections. In Newark and Niagara Falls, where treatments have been applied in previous years, the captures were reduced to 1 and 71 beetles, respectively, compared with the 65 and 216 beetles caught in these cities in 1942. The numbers of beetles collected at Geneva and Ogdensburg, compared with collections during previous seasons, indicate established infestations. Trapping in Westfield disclosed 27 beetles, where solitary beetles were trapped in both 1932 and 1933. Through excellent cooperation of local and State officials it was possible to complete all the required treatments this fall The treating program was the most extensive ever undertaken in this State.

Four negligible first-record collections were made in Ohio at Fostoria, Fowlers Mill, Lima, and Willard. Infestations in the many State control areas showed varied results. Fewer beetles were turned up in Bellevue, East Conneaut, Callipolis, Rock-bridge, and South Zanesville. Increases were noted in Ashtabula and Marietta. The remaining infestations were largely those that persisted at about the 1942 level, with little variation in the number of beetles captured. A comprehensive cooperative soil treating program, continuing the activities of previous years, was proposed by the State and the treatment work largely completed.

Trapping in the small Pennsylvania non-regulated area was limited to a group of traps in Greenville, where 14 beetles were caught.

There was no repetition of the infestation in Barre, Vt. Following the capture of 17 beetles there in 1942, a small acreage was treated with arsenate of lead. This year's negative results suggest that this small infestation may have been eradicated

The largest number of beetles trapped at any point in the non-regulated area of Virginia this year was 25 in Lynchburg. Traps have been placed there in all except three years since 1932, when two beetles were collected, without collecting any more. Approximately the same number of beetles were also collected in Harrisonburg, Lexington (a first-record), and Woodstock. Small numbers of beetles were collected at Luray, Staunton, Waynesboro, and Williamsburg. The effect of soil treatments applied in March and April 1943 at Harrisonburg, Luray, and Woodstock should be more evident next year. At Bristol, Virginia-Tennessee, 29 beetles were collected, five of which were in that part of the city which is in Tennessee. The application of soil treatments in the communities where the conditions indicate they would be justified has now been arranged for by the State and cooperating municipal officials.

Half of the six localities where beetles were trapped in West Virginia this year were first-records. In the absence of applying suppressive measures the 21 and 19 beetles respectively, at Princeton and Williamstown are of sufficient importance to warrant quarantine extension. The collections at the remaining points in West Virginia are o a few beetles each.

All trapping in three cities each in Florida and Wisconsin was with negative results.

Trapping in Georgia showed that infestations had persisted in Atlanta, Augusta, East Point, and Toccoa. In cooperation with the State soil treatments have been applied in Atlanta, Augusta, and Toccoa. The five beetles caught at East Point were found at widely scattered locations and soil treatment at this locality is deferred.

The collections in Illinois indicate there has been a reduction in the infestation at Highland Park. The number of beetles caught in both Chicago and East St. Louis is larger than last year. Solitary beetles were trapped in Cicero and Oak Park. In cooperation with the State, lead arsenate will be applied to all important infestations outside the previously treated areas in the State.

The capture of only 17 bestles at Richmond, Indiana where 556 had been trapped in 1942 indicates reduction in the infestation there as a result of trapping-soil treating programs. Infestations in Elkhart, Fort Wayne, Hammond, Indianapolis, and Logansport remained at about the same level. The work of applying lead arsenate to acreages where treatment should be applied as a result of this year's collections has been completed as a part of the cooperative effort.

In Michigan the trapping resulted in the collection of beetles in five cities in which infestations had been found in 1942. Fewer beetles were caught in Flint, but in both Detroit and River Rouge the number collected was greater than in 1942. Catches in Dearborn and Melvindale were limited to a few beetles each. Soil treating at areas where the infestation can be outlined has been completed.

At St. Louis, Missouri 14 beetles were collected as compared with 6 specimens caught there last year. Soil treatments in the city were completed shortly after the boundaries of the areas to be treated were delimited.

In North Carolina the most important development this year was the discovery in midseason of an infestation at Blowing Rock a small community at the junction of U S Highways 221 and 321 in the mountains in the northwestern section of the State. Over 17,000 beetles were trapped at this point which is remote from any other known infestation. Blowing Rock is a vacation resort at an altitude of somewhat greater than 3,600 feet, with some accommodations for tourists It has no railroad and receives rather than ships products that are regulated under the quarantine. The infestation has apparently been established for a number of years and is centered in the two blocks of the town A few beetles were found on a number of adjoining estates and on a golf course. The main hazard of spread from this point is by carriage of adult beetles by automobile A cooperative suppressive program of soil treatment and colonization of milky disease has been completed this fall and an intensive trapping program will be carried on next season. At Hendersonville where 1,718 beetles were trapped in 1942, only 785 beetles were collected this season. In the late fall of 1942 soil treatment was applied to 100 acres and an additional 75 acres are being treated this fall. In addition milky disease is being closely colonized in spots where the lead arsenate cannot be used Beetles were collected at seventeen other localities where they have been collected in previous years At most of these the number of beetles collected was fewer than collected last season Soil treatment has been applied at all of the locations where collections indicate additional areas should be treated. Asheville is still in a status of a separate control area, and along with East Spencer and several other infestation centers is included within the State quarantined area,

Beetles were again trapped in Florence and Greenville South Carolina. Soil treatments were applied in these two cities in May 1943 which was too late in the season to have appreciable effect in reducing emergence this year. The 76 beetles collected in Florence were concentrated in the treated area, indicating that the area where in festation is established has been protected. The 20 beetles captured in Greenville were scattered. 3 beetles being the largest number taken in a single block. In addition a few beetles each were collected in Charleston and Spartanburg.

Trapping in Tennessee resulted in the capture of five beetles each in Bristol and Kingsport, the collections at Bristol being in addition to the 24 beetles collected in the Virginia section of this bi State city, where soil treatment has been applied to sections where the beetles were captured

U. S. DEPARTMENT OF AGRICULTURES

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JAPANESE BEETLE TRAPPING OUTSIDE PRESENT REGULATED AREA

POSITIVE RESULTS

Location	19L Traps	13 J.B.	194 Traps	J.B.	194 Traps	J.B.	194	0	193 Traps	9 J.B.	193 Traps	8	193	7_	193 Traps	36	1935	5	1931	4
FLORIDA Jacksonville Miami Tampa	12		295 300 300	1 1	600 300 600	-	600 600 600	5 2 1	12	J . D .	12	J.B.	792 778 796	J.B.	Traps	J.B.	Traps .	J.B.	Traps	J.B.
GEORGIA Atlanta Augusta Chawblee East Point Gainesville Jonesboro Savannah Toccoa	1000 292 25 100	11 5 - - 21	1025 300 25 100 100 297 50	45-43	2369 64 350 300 - 100	24 27 1	3109 50 440 200 83 12 123	32 17 137 2	3200 400 400 60 298 92	40 142 -	3033 50 15 12	122	1487 392 	6	396 392 - - 395	1 - 1	-	-		-
ILLINOIS Blooding ton Chicago Cicero East St. Louis Elgin Evanston Highland Park Highwood Oak Park	5738 300 300 - 400 100 300	257 16 - 63 1	200 7550 599 400 600 200	170	300 9200 400 600 300 400 1100	40 7 10 5608	10000 800 600 800 - 300	462	9838 800 800 800	549 24 16	9926 600 800 385 600 200	330	395 9980 400 1234 388 400	384	7500	3740	3065 1060	39	1038	6
INDIANA Bedford Bluffton East Chicago Elkhart Fort Wayne Hammond Indianapolis Logansport Muncie Newcastle Richmond South Bend Terre Haute Warsaw Whiting	4155 2555 2605 300 300 100		99 - 289 - 596 400 1195 300 200 298 400 100	5551	240 - 392 1236 324 2514 2514 2514 1260 1300	1 - 1353251 14 1821	250 299 1200 300 2700 313 200 300 1200 194 300	777 52 160 13 27 12 60 60	3000 31600 31600 3280 400 400 1600 3250	105368111128	300 1600 1600 400 3600 400	108	400 800 400 3500 400 400 800	18 12 1	399 3500 398 400 397	5 28 3	2434	57	792	17
IOWA Ft. Maaison	-	-	-	-	-	_		-	200	-	200	1	-	_	-	-	-	_	_	
KENTUCKY Lexington Louisville	-	-	274 590	<u>-</u> 1	1223	<u>-</u>	1200	<u>-</u>	600	13	597 1566	62	391 800	10	400 800	1 2	-	-	=	-
MAINE Augusta Bangor Bar Harbor Bath Brunswick Ellsworth		111111	111111	111111			325 95 115	194111	400 150 175 100	5	300 260 100 200 200 100	3 2 1 1			253 301 172 175 71 125		200 293 120 203 84 72	1	204 204 201 202 120	1
MARYLAND Chaptico Flintstone* Hancock Hughesville Leonardtown Mechanicsville Oakland* Siebert*	1020 1055 1055 1055 1055 1055 1055 1055	118 118 17 655	9 150 50 131 68	600 18	15 150 100	1 8 7 -	100 225	10 4	25		102 64 192 50	1 1 2 1 1	10 10 10 30		24 14 20 10		23 20 25 10	1 3	24 20 25 10	2
MICHIGAN Birmingham Dearborn Detroit Flint Grosse Pointe Farms Highland Park Lincoln Park Melvinuale Pontiac River Rouge	200 300 3580 704 	2 86 37 - 1 24	161 366 5056 197 - 89 100	5120 - 24 - 1	200 7000 100 100 179	255	200 6000 200 - 100	252	200 5250 25 400 200 200	655	780 5313 200 	82	796 5045 200 398	67	398 4686 - - - -	128	790	23	792	10
MISSOURI Bridgeton (St. Louis- Lambert Field) St. Louis	19 2379	14	7921	16	108	15	51 12299	1 30	12230	26	12500	27	12557	ī	11562	88	10070 1	232	2604 1	351
NEW HAMPSHIRE																				

^{*} First-record

JAPANESE BEETLE TRAPPING
1934 - 1943

	a olum	entin			- 19											
Location	1943 Traps J.E	1942 Traps J.B.	1941 Traps, J.B	. Traps J	.B. T:	1939 raps J.B.	Traps	J.B.	Traps	7 J.B.	Traps 3	J.B.	Traps	Б.В. 1	1934 Traps J	.В.
NEW YORK Albion Alexandria Bay ' Von Batavia Bath ' Banan aigua Janaville Dundee Lunkirk Janestown Leeseville Lockort Lowville Lyons Jalone Lesena Layville Ledina Lewark Liagara Falls Lorth Tonawanda Lyaensburg Lean Yan Clattsburg Louses Point Leneca Falls Laterloo Lestield	97 2 98 800 1 296 800 1 196 1 190 1 100 1	99 190 190 190 190 190 190 190 190 190 1	200 200 200 200 200 200 200 200 200 200	300 300 200 300 300 300 300 4 200 4 200 1 12	21	1400 1 1500 116 200 15 1500 116 200 15 140 1 200 2 200 2 70 1 60 1	100 100 100 100 197	1 10 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200 35 35 37 200 37 200 200 400 400 400 400 50	13	98 200 398 195 100 800 200	10	204 96 191 204 96 403 209 96	1 1 7 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	84 60 132 287 196 60 396 204 96	1 1 2
CORTH CARCLINA chowing Rock* theriotte turnam cast Spencer clizabeth City ayetteville destonia coldsboro reensboro ammet tenderson tenderson tenderson tenderson ambet cenderson tenderson tend	300 12 100 3 100 5 100 1 100 1 195 78 300 1 100	200 25 600 25 600 27 100 85 199 31 280 106 22 200 106 29 500 15	253 345 300 5 500 9 40 597 8 197 12 599 6 201 23 301 23 246 5	22 200 900 100 100 100 100 100 100 1	77 8 33 12 87 11 157	200 388 800 377 1000 374 977 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	195 295 1000 98 2000 158 400 400 96 200 181	15 11 20 1 16 1 2 1 404	193 788 394 197 197 	136,44 136 227 133 1 14 36 227 133 2273	2000 3993 1900 2000 779 6 6 6 990 990 990 400 900 400 900 400 400 900 400 900 400 900 400 900 400 900 400 900 400 900 400 900	151010112112163 28111112137	400 383 1°22 200 400 100 371 200 400 100 100 100 100 100 100 1	13 2 1 1 10 6524 1 1 1 10 10 10 10 10 10 10 10 10 10 10		- Harman
CHIO Schlabula thens cellevue conneaut cest Conneaut cestline cellevue concer cellevue cellev	300 16 300 12 100 200 100 2	9 300 38 1 125 21 1 100 1 1 100 1 1 100 20 2 100 20 1 100 20 2 100 2 100 2 2 100 2	340 10 198 100 9 200 25 877 31 15 300 300 1 300 300 1	8 299 100 102 5 200 25 1 299 300 1 299 1 200 200 200 200 200 200 200 200 200 200	53 1 191 3 7 1 1 7 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	400 97 100 124 18 - 200 184 400 2 200 217 400 48 171 - 26 200 100 - 200 5	397 36 1200 196	126	212 198 194 297 950 200 200 199 400 3984 387 382 200 196 198 398	129	2999 	77 121	103 	1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	

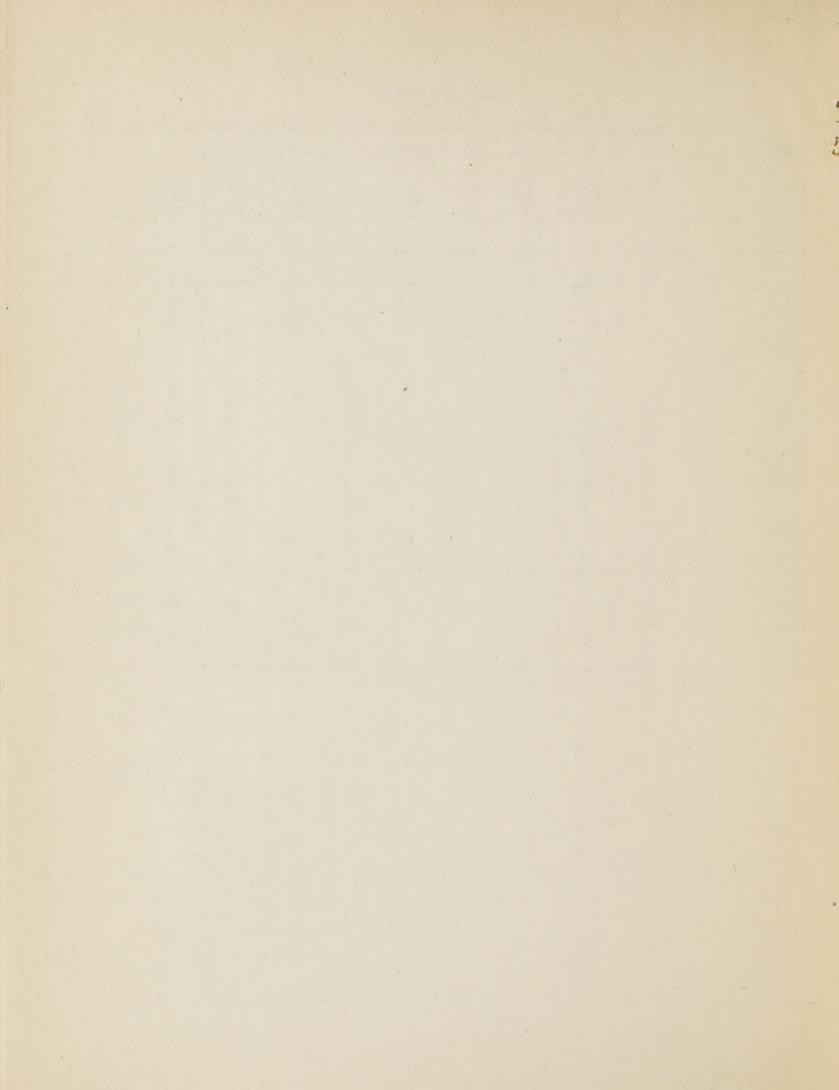
^{*} First-record

-3-

JAPANESE BEETLE TRAPPING

							-11	-	2.2		,									
Location	Traps	J.B.	Traps	J.B.	Traps J	.B.	1940 Traps	.B. !	1939 Traps J	.B.	1938 Traps J	В.	1937 Fraps J	.B. 1	1936	.B. !	1935 Traps J	.B. 1	1934 Traps J	.В.
PENNSYLVANIA Greenville	300	14	-	_	300	5	300	2	200	1		-	100	-	195	_		_	_	_
SOUTH CAROLINA Charleston Columbia Florence Greenville Spartanburg Sumter	25 300 200 600 300 200	2 76 20 1	255 399 100 300 300 200	13611	300 200 596 300	5 7 18 1	300 200 900	12 8 12 -	12 800	5	794 12 765	211611	783 792 297 750 398	2	730 800 300 794 399 200	11 - 33 -	755 555 306 799 400 200	89	204	- 2
TENNESSEE Bristol Kingsport*	100	5	131	5	-	-	-	dans dans	200		172	**	151	-	175	4	=		-	-
VERMONT Barre Montpelier	197	-	192 196	17	293 198	21	10	-	12	-	12	1.1	26	-	200	=	=	-	=	
VIRGINIA Ashland Berryville Bristol Buena-Vista Clifton Forge Columbia Courtland (Southampton Gounty) Dayton Franklin (Southampton County) Harrisonburg Hopewell Lexington* Luray Lynchburg Milford Mineral Mt. Jackson New Market Orange Rappahannock Academy Salem South Hill Staunton Stephens City Strasburg Timberville Unionville Warsaw Waynesboro Williamsburg Woodstock	200 100 200 100 200 200 200 200 100 100	24 - 1 - 12 23 25 25 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	147 10 20 100 100 100 100 100 12 45 45 160 97	10 18 77 11 12 2 13 17 67	100 	91111 11 14 11 11 11 11 11 11 11 11 11 11	100 	77 1 5 1 2 1 5	30 200 200 200 200 200 21 25 18 10 20 20 20 20 20 20 20 20 20 20 20 20 20	3	293691 1991 130 144 17 8 20 30 10 10 10 10 15 40 30	141111111111111111111111111111111111111	60 145 100 84 6 10 227 200 92 789 10 5 20 200 200 200 35	111111111111111111111111111111111111111	50 125 100 100 10 250 200 200 25 3995 105 200 105 200 105 200 105 200 105 200 105 105 105 105 105 105 105 105 105 1		100 200 200 40 394 	7	102 36 	
WEST VIRGINIA Beckley* Berkeley Springs Bluefield Elkins Huntington Pennsboro Princeton St. Albans St. Marys Williamstown*	100 100 200 100 100	10 9 4 21 8 19	99 98 100 23	3 9 11 1	19	1114111	25		70		30 593 - 40 30		125 796 100	2 2 -	285	2 4	200 35 396 400 150	1.3	36 228 168	1 - 6

^{*} First-record



COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL AT ISOLATED INFESTATIONS

1941-1944

State and City	Japanese Beetles Trapped 1941 (Number)	Soil Treatments Fall 1941 and Spring 1942 (Acres)	Japanese Beetles Trapped 1942 -(Number)	Soil Treatments Fall 1942 and Spring 1943 (Acres)	Japanese Beetles Trapped 1943 (Number)	Soil Treatm Fall 1943 Proposed f Spring 19 (Acres)	ents or or
EEORGIA Atlanta Augusta Chamblee Toccoa	24	10.9	4503	Ī	11 0 21	2.5 1.5 1.5	(c)
ILLINOIS Chicago Cicero East St. Louis Highland Park	407 0 10 5,608	92.5 77.3	170 173	46. <u>4</u> 20.0	257 16. 63	178.8 9.5 28.2	(C-T)
INDIANA EIKhart Fort Wayne Hammond Indianapolis Logansport Richmond Terre Haute	2532518	15.1 9.15 8.55 24.0 1.35 13.3	64 87 556	15:7	98 232 17	5.00 524.00 14.00 36.0	THOUSE CO
MICHIGAN Birmingham Dearborn Detroit Flint Lincoln Park Melvindale River Rouge	225 1 2 2 3	3.6 57.0 3.0	5120024	4.6 2.1 36.0 45.7 45.7	** 02 56 370 24	90.0 37.7 31.5	(C) (T) (C-T
MISSOURI Bridgeton (Airport) St. Louis	13	11.4	ł	7.3	14	13.0	(C)
NEW YORK Avon Geneva Jamestown Newark Niagara Falls Ogdensburg Silver Creek Waterloo Westfield	18 44 320 15	63.5	196 98 98 216 104 104 33	8.0 10.99 30.95 29.51 16.40	* 37 154 154 171 316 160 171 27	25.7 16.0 66.0 67.0 8.3	(CC) (CC) (CC) (CC) (CC) (CC) (CC) (CC)
NORTH CAROLINA Blowing Rock Burlington Charlotte Durham Elizabeth City Gastonia, Greensboro Hendersonville High Point Raleigh Reidsville Rocky Mount Salisbury Weldon Wilmington Wilson Winston—Salem	61275 9 86 23 52 87 9 86 23 52 87	2.9 15.1 58.6 80.6 28.7 32.1 9.3 66.6	25 25 106 1,718 46 46 29 18 18 18 18 18	17.888 23.1.15 105.50 43.00 9.77 12.1	17,405 	25.0	0 0000 0000 0
OHIO Ashtabula Bellevue Belpre Bucyrus Caldwell Chillicothe Cincinnati (Lunken Air) Conneaut Crestline East Conneaut Fostoria Fowlers Mill Gallipolis Lima Lorain Marietta Marion Mt. Vernon Nelsonville New Concord Rockbridge South Zanesville Van Wert Zanesville	108 94 5	43.2 9.5 7.9 20.2 38.2 32.1	2166 2166 2166 2166 2166 2166 2166 2166	42.0 123.1 126.7 126.7 127.46 17.66	1695201064492217400194914	10.04 15.1 3.3 10.00 16.00 16.00 2.38 10.5 22.8 36.8 10.5 27.6 10.9	0 0 0 000000000000000000000000000000000
SOUTH CAROLINA Florence Greenville	17	-	43 16	7:8	•76 20	4.0	(D)
TENNESSEE Bristol Kingsport	500 500	-	2	-	5	1:0	{T}
VERMONT	21	5.7	17		0	-	

^{*}All beetles caught in previously treated area. No soil treating required.

*Captures consisted of isolated, single beetles only. No soil treating required.

(C) Soil treating completed.

(D) Soil treating under discussion.

(P) Soil treating in progress.

(T) Soil treating planned or assured.

(T) Soil treating planned or assured.

(T) Partially completed; balance assured Spring 1944.

COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL

AT ISOLATED INFESTATIONS

1941-1944

.State and City	Japanese Beetles Trapped 1941 (Number)	Soil Treatments Fall 1941 and Spring 1942 (Acres)	Japanese Beetles Trapped 1942 (Number)	Soil Treatments Fall 1942 and Spring 1943 (Acres)	Japanese Beetles Trapped 1943 (Number)	Soil Treatments Fall 1943 or Proposed for Spring 1944 (Acres)
VIRGINIA Bristol Dayton Harrisonburg Lexington Luray Lynchburg Waynesboro Woodstock	1411004		18 7 - 67	11.2	24 22 23 25 10 19	2.0 (C)

* All beetles caught in previously treated area. No soil treating required.

* Captures consisted of isolated, single beetles only. No soil treating required.

(C) Soil treating completed.

(D) Soil treating under discussion.

(P) Soil treating in progress.

(T) Soil treating planned or assured.

(C-T) Partially completed; balance assured Spring 1944.

STATE SUMMARY OF SOIL TREATMENTS

State	Fall 1941 and Spring 1942	Fall 1942 and Spring 1943	Fall 1943 or Proposed for Spring 1944	Total
Georgia Illinois Indiana Michigan Missouri New York North Carolina Ohio South Carolina Tennessee Vermont Virginia	11.7 169.85 103.55 72.89 98.4 303.2 205.8	66.4 24.6 99.23 100.7 292.1 423.9 11.7	216.6.2 156.6.2 156.2 172.2 172.2 172.2 172.2 172.2 173.2 17	17.2 45.4 28.4 27.2 27.2 27.2 27.2 27.2 27.2 27.2 27
	987.85	1,061.13	1,041.6	3,090.58